



(11) **EP 1 931 111 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
18.06.2008 Bulletin 2008/25

(51) Int Cl.:
H04L 29/08 (2006.01)

(43) Date of publication A2:
11.06.2008 Bulletin 2008/24

(21) Application number: **07118750.4**

(22) Date of filing: **18.10.2007**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR MK RS

(72) Inventors:
• **Tobe, Akiko**
NTT DoCoMo Inc., IPD,
Chiyoda-ku, Tokyo 100-6150 (JP)
• **Tsuda, Masayuki**
NTT DoCoMo Inc., IPD,
Chiyoda-ku, Tokyo 100-6150 (JP)

(30) Priority: **20.10.2006 JP 2006286586**

(74) Representative: **Grosse, Wolfgang et al**
Grosse - Schumacher - Knauer - von
Hirschhausen
Patent- und Rechtsanwälte
Nymphenburger Strasse 14
80335 München (DE)

(71) Applicant: **NTT DoCoMo, Inc.**
Chiyoda-ku
Tokyo 100-6150 (JP)

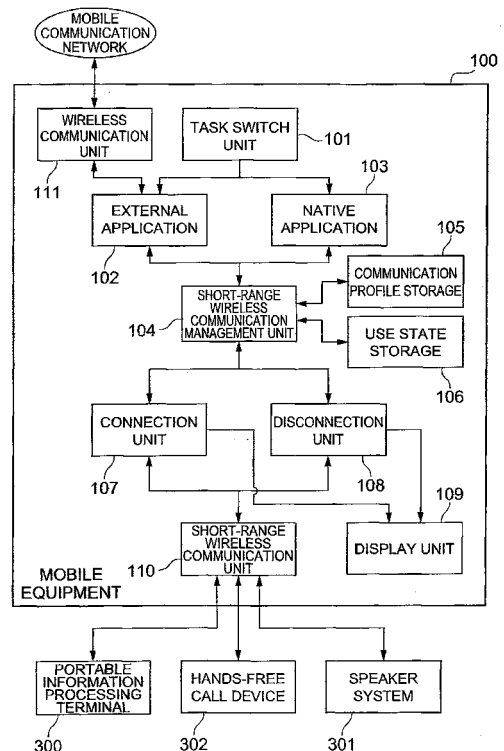
(54) **Wireless communication apparatus and wireless communication method**

(57) When a native application and a downloaded application installed on a mobile equipment are simultaneously executed by multitask and when these applications try to use short-range wireless communication simultaneously, the short-range wireless communication may be unavailable because of restrictions on communication resources.

An object of the invention is to provide a wireless communication apparatus and wireless communication method capable of performing communication management to permit the applications to use the short-range wireless communication, without a need for a complicated operation of especially terminating an application to release a communication resource in the foregoing case. A communication profile storage (105) stores combinations of communication profiles which can be simultaneously executed. A short-range wireless communication management unit (104) determines whether a communication process according to an instruction from an external application (102) can be executed, based on the communication profiles.

When the short-range wireless communication process is determined not to be executed, a disconnection unit (108) notifies the external application (102) of unavailability of the communication.

Fig.2



EP 1 931 111 A3



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	WO 2006/053951 A (NOKIA CORP [FI]; HONKANEN MAURI [FI]; KASSLIN MIKA [FI]; KATAJAINEN PA) 26 May 2006 (2006-05-26) * page 1, line 5 - page 2, line 4 * * page 6, line 19 - page 12, line 5 * -----	1-13	INV. H04L29/08
A	US 2006/050670 A1 (HILLYARD JASON [US] ET AL) 9 March 2006 (2006-03-09) * paragraph [0005] - paragraph [0009] * -----	1-13	
A	US 2006/072525 A1 (HILLYARD JASON [US] ET AL) 6 April 2006 (2006-04-06) * paragraph [0051] * * paragraph [0058] - paragraph [0065] * -----	1-13	
A	EP 1 255 383 A (NOKIA CORP [FI]) 6 November 2002 (2002-11-06) * paragraph [0052] - paragraph [0053] * -----	1,10,13	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			H04L
Place of search		Date of completion of the search	Examiner
Munich		29 April 2008	Cankaya, Sukru
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

1
EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 07 11 8750

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

29-04-2008

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2006053951	A	26-05-2006	CN 101088235 A	12-12-2007
			EP 1815620 A1	08-08-2007
			KR 20070088720 A	29-08-2007
			US 2006135076 A1	22-06-2006

US 2006050670	A1	09-03-2006	NONE	

US 2006072525	A1	06-04-2006	NONE	

EP 1255383	A	06-11-2002	AT 301359 T	15-08-2005
			DE 60205299 D1	08-09-2005
			DE 60205299 T2	06-04-2006
			FI 20010926 A	04-11-2002
			JP 3790186 B2	28-06-2006
			JP 2003023391 A	24-01-2003
US 2002197956 A1	26-12-2002			
